

## Report of Analysis

Submission: 2003-002953-NYHB  
Customer: Petro-Canada  
Terminal: OSWEGO SPRAGUE NY  
Vessel: MT DIAMOND STAR  
Product: No. 2 Fuel Oil  
Date Received: August 19, 2003  
Date Reported: August 19, 2003

THE ATTACHED CERTIFICATE REPRESENTS THE PRODUCT INSPECTED BY THE INSPECTION SERVICE ON THE DATE STATED ON THE CERTIFICATE IN THE TANK STATED BY THE INSPECTION SERVICE. SPRAGUE REPRESENTS THAT ANY PRODUCT IT MAY SELL AT THE RACK MAY DIFFER FROM SUCH INSPECTION CERTIFICATE BUT SUCH PRODUCT SHALL MEET THE SPECIFICATIONS AS MAY BE REQUIRED BY ANY APPLICABLE REGULATIONS WITHIN THE STATE THAT THE PRODUCT IS SOLD.

Lab Reference : 2003-002953-NYHB-001 Sample Designated As : ST#5 UPPER NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	14.1	deg API
D4294	Sulfur	1.15	Wt %

Lab Reference : 2003-002953-NYHB-002 Sample Designated As : ST#5 MIDDLE NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	14.0	deg API
D4294	Sulfur	1.14	Wt %

Lab Reference : 2003-002953-NYHB-003 Sample Designated As : ST#5 LOWER NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	14.0	deg API
D4294	Sulfur	1.14	Wt %

Lab Reference : 2003-002953-NYHB-004 Sample Designated As : ST#5 RUNNING NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	13.9	deg API
D4294	Sulfur	1.25	Wt %

Lab Reference : 2003-002953-NYHB-006 Sample Designated As : ST#5 U, M, L, COMPOSITE NO. 6 FUEL OIL			
Method	Test	Results	Units
D4052	API Gravity @ 60 Deg F	14.0	deg API
D93 method B	Corrected Flash Point	>200	deg F

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Lab Reference : 2003-002953-NYHB-006  
Sample Designated As : ST#5 U, M, L, COMPOSITE NO. 6 FUEL OIL

Method	Test	Results	Units
D445 at 122 deg F	Kinematic Viscosity @ 122°F	340.1	cSt
D2161	Saybolt Furol Viscosity @ 122 °F	160.6	SFS
D97	Pour Point	9	deg C
D97	Pour Point	48	deg F
D4294	Sulfur	1.15	Wt %
D1796	Sediment and Water	0.10	Vol %
D240	Gross Heat of Combustion	18,664	BTU / lb
D240	Gross Heat of Combustion	151,160	BTU / gal
D3279	Asphaltene / n-Heptane Insolubles	1.55	Wt %
D4530	Micro Carbon Residue	8.3	Wt %
D473	Sediment by Extraction	0.01	Wt %
D482 @ 775 deg C	Ash @ 775 deg C	0.008	Wt %
D5762	Nitrogen	0.33	Wt %
D95	Water	<0.10	Vol %
D5708 Method A	Sodium	65.5	mg / kg
D5708 Method A	Vanadium	33.2	mg / kg

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